

Common Assumptions

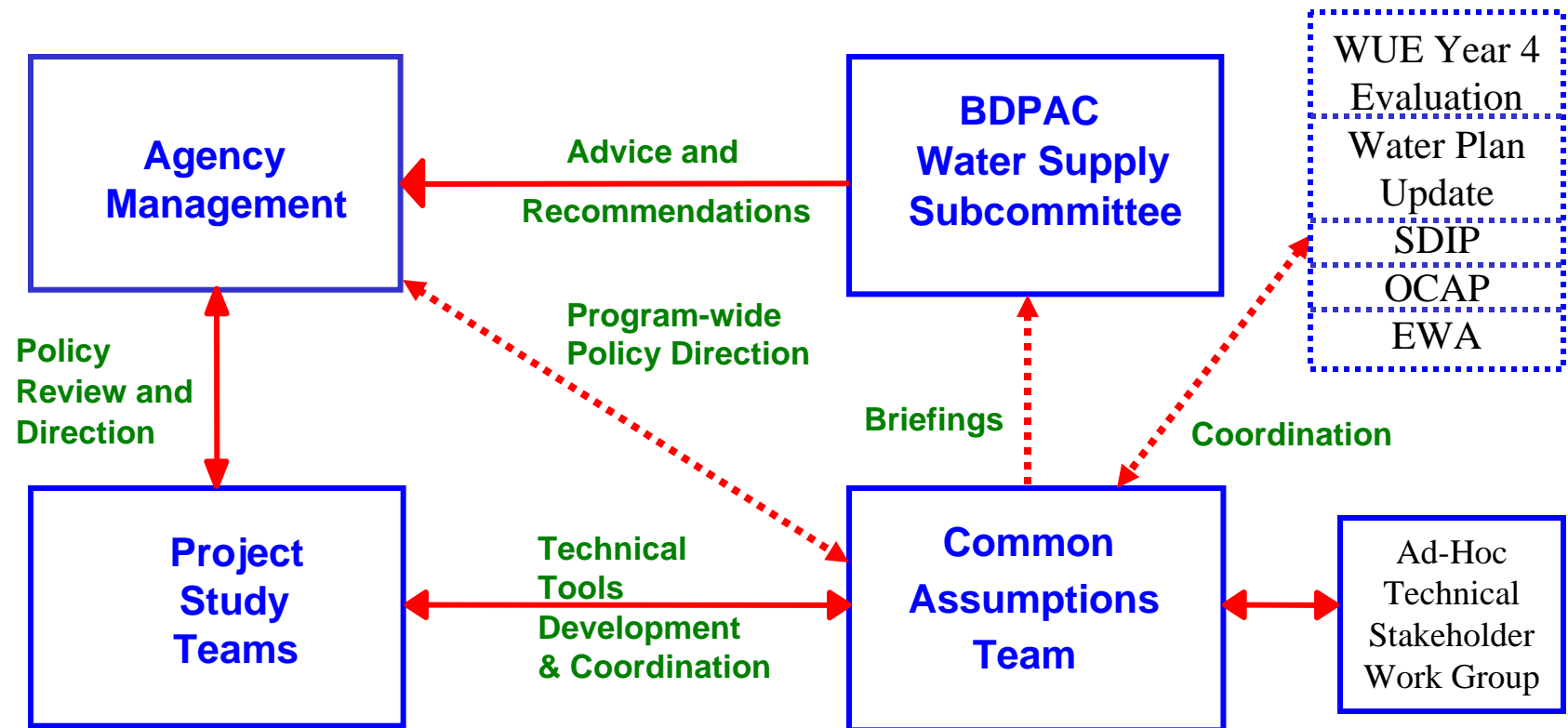
BDPAC Water Supply Subcommittee

June 14, 2006

Overview

- Common Assumptions Refresher
- Objectives to Support the Surface Storage Investigations
- Major Model Development/Improvements
- Application of Common Model Packages
- State/Federal Decision Making Processes
- Local/Regional Decision Process
- Information to Support Decision Making Process

Common Assumptions Interactions



Objectives to Support the Surface Storage Investigations

- Assist/coordinate in strategic planning, policy and management needs
- Establish *common assumptions/inputs*
- Establish *common analytical framework* and associated tools and methodologies for integrated hydrologic and economic analysis
- Establish *common reporting metrics* for assessing the impacts and benefits of projects, and
- Establish *modeling protocols* and quality control measures

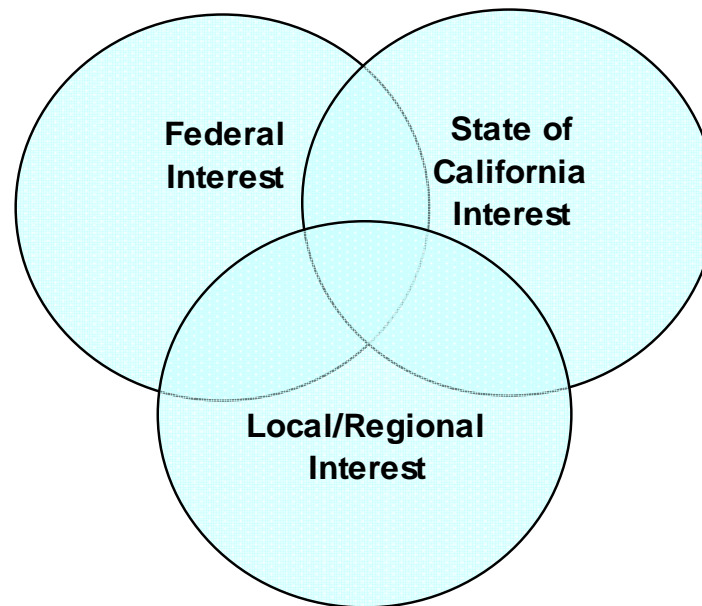
Major Model Development/Improvements

- CALSIM II refinements and enhancements
 - New Colusa Basin Drain module
 - New San Joaquin River module
 - Integrate Los Vaqueros Reservoir module
- Update ANN (Artificial Neural Network)
- Integrate EWA operations
- Implement water transfers
- Integrate LCPSIM/CALSIM Linkage
- Extend DSM2 simulation period to 1922-2003

Application of Common Model Packages

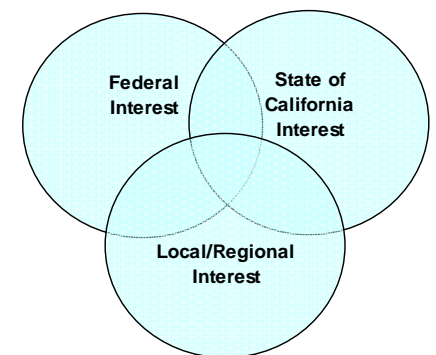
- Common Model Packages are to be used by individual storage investigations in the feasibility report and environmental documents
- Project schedules drive which version is used
- Support reviewers, decision-makers, and stakeholders to assess the performance of storage projects

Planning and Decision Making Partners



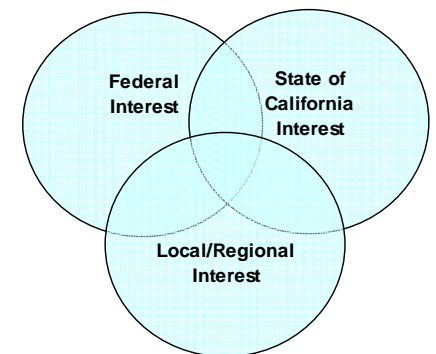
State/Federal Decision Making Processes

- Structured process
 - Planning and environmental compliance, procedures, policy
 - Feasibility based on potential costs, benefits, effectiveness, completeness, acceptability
 - Technical and review off-ramps (milestones) along the way
- Non-structured process
 - Continued identification of local/regional partners
 - Cost allocations/financing plans
 - Political support
 - Continued understanding of limits on public funding



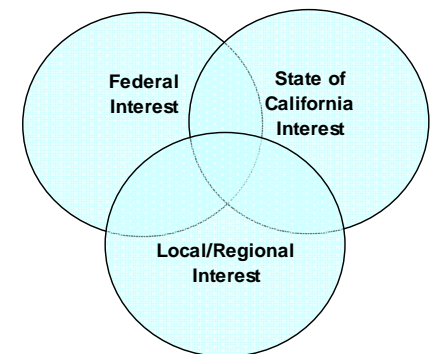
Local/Regional Decision Process

- Cost allocations/Financing plan
- Technical details
- Local stakeholder support (willingness to pay)
- ???



Information to Support Decision Making Process

- Reporting of project specific results
 - Common reporting metrics
 - Project specific details
- Access to staff to discuss detailed modeling
- Cost allocation scenarios (to be developed)
- Conceptual financing plans (to be developed)



Common Reporting Metrics

Water Supply Reliability

- Sacramento Valley
 - CVP Ag
 - CVP M&I
- Bay Area
 - CVP Ag
 - CVP M&I
 - SWP M&I
- San Joaquin Valley (export area)
 - CVP Ag
 - CVP M&I
 - SWP Ag
 - Groundwater Banking
- South Coast
 - SWP M&I
- In-Delta

Cost Estimates

- Capital Cost
- Annual O&M

Water Quality

- San Joaquin River
 - Vernalis
- Delta
 - All Compliance Locations
- Bay Area
 - M&I Intake Locations
- Delta Export
 - Tracy
 - Banks

Ecosystem

- Sacramento River
- Delta
 - X2 Location
 - Reverse/Cross-Delta Flow
 - Delta Outflow
- EWA
- Level 4 Refuge
 - NOD
 - SOD

Cost Allocation Scenarios

